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* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *
* * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

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ring nodes :
7  8  9  10  11  12
chain bonds :
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ring bonds :
7-8  7-12  8-9  9-10  10-11  11-12
exact/norm bonds :
1-3  1-2  1-4  1-18  4-5  5-6  5-15  7-8  7-12  8-9  9-10  10-11  11-12  11-17
isolated ring systems :
containing 7 :


G1:H,Ak

G2:H,O

Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:Atom  8:Atom  9:Atom
10:Atom  11:Atom  12:Atom  13:CLASS  15:CLASS  17:CLASS  18:CLASS



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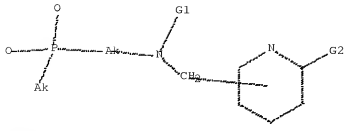

G1 H,Ak
G2 H,O

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=> s l8 full
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=> file caplus

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L11           5 L10

=> s l11 and pd< nov 2003
      23874039 PD< NOV 2003
                 (PD<20031100)
L12           4 L11 AND PD< NOV 2003

=> dis l12 ibib abs hitstr

L12  ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2001:904191  CAPLUS  Full-text
DOCUMENT NUMBER:          136:37770
TITLE:                    Preparation of organophosphorous hydroxamic acid
                          derivatives as herbicides
INVENTOR(S):              Jomaa, Hassan
PATENT ASSIGNEE(S):       Jomaa Pharmaka GmbH, Germany
SOURCE:                   PCT Int. Appl., 86 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   2
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
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     WO 2001094358        A1    20011213    WO 2001-EP6536         20010608 <--
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             HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
             LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
             RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
             VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     DE 10127936          A1    20011213    DE 2001-10127936       20010608 <--
PRIORITY APPLN. INFO.:                     DE 2000-10028367    A  20000608
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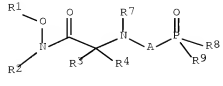
OTHER SOURCE(S): CASREACT 136:37770; MARPAT 136:37770
GI

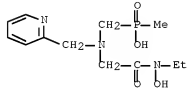


I

AB The invention relates to the preparation and use of title compds. I (A = selected from the group comprised of CR5R6, CR5R6CH(OH), CR5R6CO, COCR5R6; R1 = H, (un)substituted alkyl, alkenyl, alkynyl, acyl, cycloalkyl, alkylcycloalkyl, heterocyclic, etc.; R2-R7 = same or different H, (un)substituted alkyl, alkenyl, alkynyl, aryl, acyl, cycloalkyl, alkylcycloalkyl, aralkyl, heterocyclic, etc.; R8-R9 = same or different H, (un)substituted alkyl, alkenyl, alkynyl, aryl, acyl, cycloalkyl, alkylcycloalkyl, aralkyl, heterocyclic, etc.), is described. Thus, reaction of glycine Me ester hydrochloride with pentanal followed by H3PO3 phosphonylation and sequential treatment with NH2OH gave title compound, HONHCOCH2NHCH(Bu)P(O)(OH)2. The prepared compds. are used as herbicides for selective pre- and post-emergent control of weeds in useful plant cultures.

IT 380330-00-7P 380330-02-9P
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of organophosphorous hydroxamic acid derivs. useful as herbicide)

RN 380330-00-7 CAPLUS
CN Phosphinic acid, [[[2-(ethylhydroxyamino)-2-oxoethyl](2-pyridinylmethyl)amino]methyl]methyl- (9CI) (CA INDEX NAME)



RN 380330-02-9 CAPLUS
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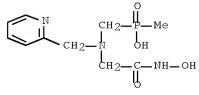

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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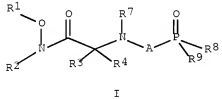
L12 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:903861 CAPLUS Full-text
DOCUMENT NUMBER: 136:37769
TITLE: Preparation of organophosphorous hydroxamic acid derivatives useful for producing medicaments
INVENTOR(S): Jomaa, Hassan
PATENT ASSIGNEE(S): Jomaa Pharmaka GmbH, Germany
SOURCE: PCT Int. Appl., 87 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001093872	A1	20011213	WO 2001-EP6539	20010608 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10127922	A1	20011213	DE 2001-10127922	20010608 <--
PRIORITY APPLN. INFO.:			DE 2000-10028367 A	20000608

OTHER SOURCE(S): CASREACT 136:37769; MARPAT 136:37769
GI



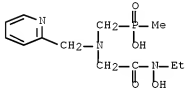
I

AB The invention relates to the preparation and use of title compds. I (A = selected from the group comprised of CR5R6, CR5R6CH(OH), CR5R6CO, COCR5R6; R1 = H, (un)substituted alkyl, alkenyl, alkynyl, acyl, cycloalkyl, alkylcycloalkyl, heterocyclic, etc.; R2-R7 = same or different H, (un)substituted alkyl, alkenyl, alkynyl, aryl, acyl, cycloalkyl, alkylcycloalkyl, aralkyl, heterocyclic, etc.; R8-R9 = same or different H, (un)substituted alkyl, alkenyl, alkynyl, aryl, acyl, cycloalkyl, alkylcycloalkyl, aralkyl, heterocyclic, etc.), is described. Thus, reaction of glycine Me ester hydrochloride with pentanal followed by H3PO3

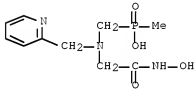
phosphonylation and sequential treatment with NH2OH gave title compound, HONHCOCH2NHCH(Bu)P(O)(OH)2. Said compds. are used for producing medicaments for the therapeutic and prophylactic treatment of infections in humans and animals caused by viruses, bacteria, fungi and parasites.

IT 380330-00-7P 380330-02-9P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of organophosphorous hydroxamic acid derivs. useful for producing medicaments)

RN 380330-00-7 CAPLUS
CN Phosphinic acid, [[[2-(ethylhydroxyamino)-2-oxoethyl](2-pyridinylmethyl)amino]methyl]methyl- (9CI) (CA INDEX NAME)



RN 380330-02-9 CAPLUS
CN Phosphinic acid, [[[2-(hydroxyamino)-2-oxoethyl](2-pyridinylmethyl)amino]methyl]methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1993:603630 CAPLUS Full-text
DOCUMENT NUMBER: 119:203630
TITLE: Preparation and GABA antagonistic property of aminoalkanephosphinic acids and their salts
INVENTOR(S): Mickel, Stuart John
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 543780	A2	19930526	EP 1992-810879	19921112 <--
EP 543780	A3	19930901		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE

EP 767174	A1	19970409	EP 1996-118735	19921112	<--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE					
CA 2083307	A1	19930522	CA 1992-2083307	19921119	<--
AU 9228504	A	19930527	AU 1992-28504	19921119	<--
AU 662938	B2	19950921			
JP 05247069	A	19930924	JP 1992-310082	19921119	<--
US 5376684	A	19941227	US 1992-979513	19921119	<--
NO 9204479	A	19930524	NO 1992-4479	19921120	<--
ZA 9208979	A	19940415	ZA 1992-8979	19921120	<--
US 5500418	A	19960319	US 1994-308040	19940916	<--
AU 9540456	A	19960426	AU 1995-40456	19951214	<--
NO 9704115	A	19930524	NO 1997-4115	19970908	<--
NO 9704116	A	19930524	NO 1997-4116	19970908	<--
NO 9704117	A	19930524	NO 1997-4117	19970908	<--
PRIORITY APPLN. INFO.:			CH 1991-3404	A 19911121	
			EP 1992-810879	A3 19921112	
			US 1992-979513	A3 19921119	

OTHER SOURCE(S): MARPAT 119:203630

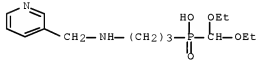
AB The preparation and GABA antagonistic property (no data) of aminoalkanephosphinic acids, RP(O)(OH)CH2CHR1CH2NR2R3 [R = Bu, diethoxymethyl, cyclohexylmethyl, cyclohex-3-enylmethyl, PhCH2, 4-chlorobenzyl, 4-methylbenzyl, 4-methoxybenzyl, etc.; R1, R2, R3 = H, OH, (un)substituted Ph, etc.] and their salts is claimed. Thus, condensation of 3,5-Cl2C6H3CHO with H2N(CH2)3P(O)(OEt)CH(OEt)2 and hydride reduction of the resulting Schiff base gave 3,5-Cl2C6H3CH2NH(CH2)3P(O)(OEt)CH(OEt)2, which in EtOH was treated with LiOH in H2O at 60° for 24 h to give the title compound 3,5-Cl2C6H3CH2NH(CH2)3P(O)(OH)CH(OEt)2. Pharmaceutical compns. containing the title compds. are described.

IT 149936-25-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as GABA antagonist)

RN 149936-25-4 CAPLUS

CN Phosphinic acid, (diethoxymethyl)[3-[(3-pyridinylmethyl)amino]propyl]-(9CI) (CA INDEX NAME)



L12 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:	1992:152013 CAPLUS Full-text
DOCUMENT NUMBER:	116:152013
TITLE:	Preparation of (3-aminopropyl)phosphinates as antiepileptics
INVENTOR(S):	Marescaux, Christian; Bernasconi, Raymond; Schmutz, Markus; Froestl, Wolfgang; Mickel, Stuart J.
PATENT ASSIGNEE(S):	Ciba-Geigy A.-G., Switz.
SOURCE:	Eur. Pat. Appl., 49 pp. CODEN: EPXXDW
DOCUMENT TYPE:	Patent
LANGUAGE:	German
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

EP 463560	A1	19920102	EP 1991-110074	19910619 <--
EP 463560	B1	19951025		
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IL 114631	A	19981206	IL 1991-114631	19910614 <--
AT 129500	T	19951115	AT 1991-110074	19910619 <--
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US 5229379	A	19930720	US 1991-718503	19910620 <--
NO 9102429	A	19911223	NO 1991-2429	19910621 <--
NO 302476	B1	19980309		
AU 9179220	A	19920102	AU 1991-79220	19910621 <--
AU 641772	B2	19930930		
ZA 9104791	A	19920325	ZA 1991-4791	19910621 <--
JP 04243829	A	19920831	JP 1991-150647	19910621 <--
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KR 219315	B1	19991001	KR 1991-10289	19910621 <--
US 5407922	A	19950418	US 1993-56726	19930503 <--
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PRIORITY APPLN. INFO.:

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CH 1991-440	A	19910213
CH 1991-1199	A	19910422
IL 1991-98502	A	19910614
US 1991-718503	A3	19910620
US 1993-56726	A3	19930503

OTHER SOURCE(S): MARPAT 116:152013

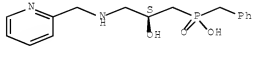
AB R(HO)P(O)CR1R2CR3R4CHR5NR6R7 [I; R = (cyclo)aliphatyl, cycloaliphatylaliphatyl, araliphatyl; R1, R2, R3, R5 = H; R4 = H, OH; R6 = araliphatyl, heteroarylaliphatyl; R7 = R6, H, alkyl] were prepared Thus, H2N(CH2)3P(O)(OEt)CH(OEt)2 was stirred 30 min with 4-ClC6H4CHO in MeOH; NaBH3CN in MeOH was added and the mixture was stirred 3 h to give the benzylated amine, which was saponified with LiOH in H2O/EtOH to give 4-ClC6H4CH2NH(CH2)3P(O)[CH(OEt)2]OH. 3-Aminopropyl(cyclohexylmethyl)phosp hinic acid at 400 mg/kg i.p. in epileptic rats eliminated spike and wave discharges after 20 min.

IT 139667-78-0P 139668-25-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as antiepileptic)

RN 139667-78-0 CAPLUS

CN Phosphinic acid, [2-hydroxy-3-[(2-pyridinylmethyl)amino]propyl](phenylmeth yl)-, (S)- (9CI) (CA INDEX NAME)

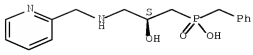
Absolute stereochemistry.



RN 139668-25-0 CAPLUS

CN Phosphinic acid, [2-hydroxy-3-[(2-pyridinylmethyl)amino]propyl](phenylmeth yl)-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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L13  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2005:523469  CAPLUS  Full-text
DOCUMENT NUMBER:          143:43971
TITLE:                    Preparation of phosphinic acid derivatives and their
                          use as pharmaceuticals
INVENTOR(S):              Froestl, Wolfgang
PATENT ASSIGNEE(S):       Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.
SOURCE:                   PCT Int. Appl., 16 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
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     WO 2005054259        A1    20050616    WO 2004-EP13177          20041119
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             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO,
             SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
             NE, SN, TD, TG
     AU 2004295060        A1    20050616    AU 2004-295060           20041119
     AU 2004295060        B2    20070830
     CA 2545589           A1    20050616    CA 2004-2545589          20041119
     EP 1687319           A1    20060809    EP 2004-819605           20041119
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     CN 1882598           A     20061220    CN 2004-80034330         20041119
     BR 2004016226        A     20070102    BR 2004-16226            20041119
     JP 2007513088        T     20070524    JP 2006-540346           20041119
     US 2007259835        A1    20071108    US 2006-576972           20060425
     MX 2006PA05704       A     20060817    MX 2006-PA5704           20060519
     IN 2006CN01778       A     20070706    IN 2006-CN1778           20060519
PRIORITY APPLN. INFO.:                       GB 2003-27186       A  20031121
                                             WO 2004-EP13177     W  20041119
OTHER SOURCE(S):          CASREACT 143:43971; MARPAT 143:43971
```

AB The present invention relates to phosphinic acid derivs., RP(O)(OH)CH2CHR1CH2NR2R3 (R = C3-5 alkyl, di(C1-4)alkoxymethyl, (C3-6)cycloalkyl(C1-4)alkyl or benzyl, etc.; R1 = H, OH; R2 = oxydihydropyridylmethyl, pyridylmethyl, etc.; R3 = H, C1-4 alkyl, or a salt thereof), as GABAB antagonists, their preparation, their use as pharmaceuticals and pharmaceutical compns. containing them. Thus, reaction of Et {3-[(6-methoxy-3-pyridylmethyl)amino]-2-(S)-hydroxypropyl}-(cyclohexylmethyl)phosphinate (preparation given) with NaOH in EtOH/H2O gave phosphinic acid hydrochloride which on treatment with propylene oxide in MeOH gave title compound, {3-[(6-methoxy-3-pyridylmethyl)amino]-2-(S)-hydroxypropyl}-(cyclohexylmethyl)phosphinic acid.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y
STN INTERNATIONAL LOGOFF AT 16:52:46 ON 08 FEB 2008